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BOARD OF LAND AND NATURAL RESOURCES

FOR THE STATE OF HAWAI'I

IN THE MATTER OF) Case No. BLNR-CC-16-002
)
A Contested Case Hearing Re Conservation;) CINDY FREITAS TENTH
Use Application (CDUA) HA-3568 For the) SUPPLEMENTAL EXHIBIT
Thirty Meter Telescope at the Mauna Kea) LIST; CERTIFICATE OF
Science Reserve, Ka'ohe Mauka, Hamakua,) SERVICE
Hawai'i TMK(3)4-4-015:009)
)

CINDY FREITAS TENTH SUPPLEMENTAL EXHIBIT LIST

| Ex No. | Description |
|---------|---|
| S-32 | ERRATA RE: CINDY FREITAS CORRECTION ON CROSS EXAMINATION |
| S-18b 4 | University of Hawai'i News "Large fresh water supply discovered by UH researchers on Hawai'i Island |
| S-28d 1 | Janet M. Dellaria of Trout Creek, Michigan, Experience on Mauna Kea |
| S-28d 2 | Image: Janet M. Dellaria on Mauna Kea background Haleakala |

Kailua Kona HI, February 25, 2017


Cindy Freitas Petitioner

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| Science Reserve, Ka'ohe Mauka, Hamakua, |) OF SERVICE |
| Hawai'i TMK(3)4-4-015:009 |) |
| _____ |) |

ERRATA RE; CINDY FREITAS CORRECTION ON CROSS EXAMINATION

I Cindy Freitas ("Petitioner"), hereby make correction on testifying on February 21, 2017 by cross examination were heard in Hilo, Hawaii at the Grand Naniloa Hotel, Crown Room, 93 Banyan Drive, for the Contested Case Hearing Re Conservation Use Application (CDUA) HA-3568 for the Thirty Meter Telescope at the Mauna Kea Science Reserve, Ka'ohe Mauka, Hamakua, Hawai'i TMK (3)4-4-015:009.

Correction as followed:

Dexter K. Kaiama cross examiner:

1. Table 1.2: Summary of Access Way Disturbances on CDUA page 1-13 is stated by Cindy Freitas as Exhibit S-31h: Correction is S-31g.

2. Exhibit S-31g: Table 1.2: Summary of Access Way Disturbances on CDUA page 1-13 is stated by Cindy Freitas as 3.6 miles, 1.9 disturbed miles and 1.7 undisturbed miles: Correction is 3.6 acres, 1.9 acres and 1.7 undisturbed acres.

Kealoha Pisciotta cross examiner:

1. Exhibit S-31h: Correction S-31g

Clarence KuKauakahi Ching:

1. Question by Mr. Ching, "is how much cubic yards will be put back in the area".

Answer by Cindy Freitas , "22,000. cubic yards in Area E and the access road":

Correction is 32,000. cubic yards.

Kailua Kona, HI 2/25/17


Cindy Freitas Petitioner



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In March 2013, researchers from the [University of Hawai'i at Mānoa](#) and [UH Hilo](#) began drilling at 64-hundred feet above sea level, between the mountains of Mauna Loa and Mauna Kea in the saddle region of the Big Island of Hawai'i.

UH Mānoa professor [Donald Thomas](#) is leading the effort, called the Humu'ula Saddle Hydrologic Study Project.

What they discovered seven months later may radically change conventional wisdom regarding the state's most valuable resource: fresh water.

"The conventional model that we worked with for years and years is that we have a relatively thin basal fresh water lens, is what we call it," said UH Professor Donald Thomas, the director of the [Center for the Study of Active Volcanoes](#). "A layer of fresh water saturated rock that rises very slowly as we move inland."

According to that conventional model developed decades ago, the research team should have had to drill for 5,900 feet to 500 feet above sea level, before reaching the Big Island's fresh water supply.

"We found something just completely different," said Thomas. "The stable water table in the saddle is not 500 feet above sea level. It's more like 4,500 feet above sea level. So we are almost ten times higher than we could have expected when we started out on the project."

Geologists have long thought that only a small fraction of rainwater is stored in the islands

because the geological makeup of Hawai'i is volcanic and porous.

"With our findings here, it looks as though the islands really act as huge containers," said Thomas.



Humu'ula Saddle Hydrologic Study Project drill site.

The impact could be far-reaching for residents, ranchers and farmers in drought stricken areas across the island chain and on O'ahu, where fresh water may be scarce one day after supporting the majority of the state's population for decades.

Right now, only one thing is certain.

"What we really need to do is go back and look again, using modern geophysical methods, to really define the ground water systems within all of the islands," said Thomas.

The next step for the Humu'ula Saddle Hydrologic Study Project is a second drill site six miles from the first, to measure the extent of the groundwater discovered. If that test well proves successful, it will also provide strong support for high level water beneath a large tract of [Department of Hawaiian Home Lands](#) property on the eastern side of the Humu'ula Saddle where their lessees have long needed a reliable source of water for ranching operations.

The [United States Army](#) is funding the project in hopes of finding water for its Pōhakuloa Training Area, where the first drill site is located. Currently, the Army spends \$1.5 million each year trucking fresh water to the training camp for use by troops and support staff.

"It's been, as far as I am concerned, an outstanding partnership," said Thomas. "We are able to develop scientific information that I think is really of fundamental importance to Hawai'i and at the same time, we have a practical outcome."

As UH-led work continues in the area, ripples of excitement are spreading through the community. This unprecedented find on the Big Island could change the way we understand the geology of the Hawaiian islands and the state's fresh water supply.

"I really believe the university should really try to become involved in to try and really improve the quality of life and preserve the quality of life that we have here in Hawai'i," said Thomas.

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Dear Cindy

February 2017

What a gift to have been in contact with you and share our great respect for Mauna Kea. I have a story to tell about my actual PROFOUND experience at the top of Mauna Kea last April, 2016.

My good friend, Deborah and I went to pay homage to Mauna Kea. Although I had visited the telescopes before, I had never made the journey to the *ahu* at the very top. Deborah explained on the drive up that the whole mountain top was a place of non-duality energy. Duality is the world of push and pull, of give and take, of war, of opposites. The non-dual world is a place of harmony, flowing energy, true Aloha, and is a much higher level of being-ness. Think of Ghandi, Nelson Mandela, and Martin Luther King and how they changed societies for the better. Each used the energy of non-duality!!!! Is the Hawaiian word *Kapu Aloha*???? Deborah encouraged me to have a question that I wanted answered, to think of it as I began to walk to the *ahu*, and that the answer would come on my return walk.

We arrived at the summit at sunset and what a glorious experience. The gray granite rocks had turned a beautiful reddish color in the sunset glow, shadow mountain appeared on the cloud cover over Hilo, and there was such a deep, deep peacefulness at the summit and *ahu*. After walking around the *ahu*, I respectfully tucked the six ti leaves I had brought as my *ho'okupu* into a crevice. There were other *ho'okupu* already there. As the sunset glow turned into dusk, the *ahu* glowed even redder and there was one stone that glowed white, like a beacon! All turned back to granite gray as night fell. My friend scampered back down and up to the parking lot. Due to some breathing difficulty, I walked back slowly. As I began my

ascent to the parking lot, a word came to me in answer to my question: "What do I need to know at this time?" The answer was "Teamwork"!!!! I thought it over, decided teamwork WAS the answer because no one can do anything totally alone, and there is power and much *Aloha* in teamwork. It means a connectedness to others and a working together for a desired common goal. As I thanked Mauna Kea for the reply and continued to walk slowly up hill, I saw something move. The moon had just come up, and I blinked in the semi-darkness. The night was totally clear overhead, not a cloud in sight yet I saw two wisps of mist coming down the mountain to my left. YES! I knew from the Kapuna and Kumu that Spirit sometimes gives recognition via mist. What a PROFOUND experience of having had a clear communication with the Spirit of Mauna Kea and then a 'mist strands' reply of 'you are welcome' to my 'Thank You'.

As you know, I am a doctoral candidate in the field of Leadership Studies at Our Lady of the Lake University, San Antonio, Texas with the hopes of graduating this May. My Mauna Kea experience has changed my view on the world and what is truly important and what is nothing but a scramble for power and control. I choose to lead and live from the place of non-duality!

I have been to Notre Dame in Paris and to St. Peter's Basilica in Rome. Mauna Kea is where the real Sacredness is. It belongs to every citizen of this planet!

Once destroyed, the Sacredness of Mauna Kea cannot be legislated back into existence.

Blessings to you my fellow traveler,

Janet M. Dellaria of Trout Creek, Michigan 808 987-1908



S-28d 2

BOARD OF LAND AND NATURAL RESOURCES
STATE OF HAWAII

Contested Case Hearing Re Conservation
District use Application (CDUA) HA-3568
For the Thirty Meter Telescope of the Mauna
Kea Science Reserve, Ka'ohe Mauka,
Hamakua, Hawaii, TMK (3) 4-4-015.009

BLNR Contested
Case HA-16-02 --
Document Title

CERTIFICATE OF SERVICE

The undersigned hereby certifies that the above reference document was served upon the
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